



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 5, 2015

Joshua Wiley
Regulatory Assurance Manager
Arch Chemicals, Inc.
1200 Bluegrass Lakes Parkway
Alpharetta, GA 30004

Subject: Label Amendment – To add marketing claims, revise Directions for Use, Physical and Chemical Hazards and Precautionary Statements
Product Name: HTH Pool Shock
EPA Registration Number: 1258-1237
Application Date: April 24, 2015
Decision Number: 505642

Dear Wiley:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

Page 2 of 2
EPA Reg. No. 1258-1237
Decision No. 505642

with FIFRA section 6. If you have any questions, please contact Wanda Henson by phone at (703) 308-6345, or via email at henson.wanda@epa.gov.

Sincerely,

A handwritten signature in blue ink that reads "Wanda J. Henson, for". The signature is written in a cursive style.

Demson Fuller, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

Note to reviewer:

[All text in brackets [AAA] is optional and may/may not be included on all end-use labels]

{All text in braces {AAA} is for information purposes and will not appear on final label}

HTH[®] POOL SHOCK

ACTIVE INGREDIENT:

Calcium Hypochlorite 47.6%

OTHER INGREDIENTS: 52.4%

TOTAL: 100.0%

[Minimum Available Chlorine45%]

ACCEPTED

06/05/2015

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under

EPA Reg. No. 1258-1237

KEEP OUT OF REACH OF CHILDREN

[MANTENGASE FUERA DEL ALCANCE DE LOS NIÑOS]

DANGER [PELIGRO]

Contamination or improper use may cause fire, explosion or the release of toxic gases. Do not allow product to contact any foreign matter, including other water treatment products. If product is exposed to small amounts of water, it can react violently to produce heat and toxic gases and spatter. Do not add water to this product. Only add this product directly to your swimming pool [,][or] spa][or skimmer].

{Note to reviewer: Although this product has a "Danger" signal word, as per the EPA label review manual "The Agency may permit reasonable variations in the placement of the First Aid statement as long as the reference statement, "See First Aid (or Statement of Practical Treatment) on (identify appropriate panel)" appears on the front panel." If the First Aid Statements are placed on the front panel of the final graphic label, the statement below will only reference Precautionary Statements :}

Read all Precautionary [and First Aid] Statements on [back] [side] [right] [left] panel before use.

[Manufactured for] [Sold by]:

Arch Chemicals, Inc.

P.O. Box 724438

Atlanta, GA 31139-1438

EPA Reg. No. 1258-1237

[Superscript Used in Lot Number]

EPA Est. No. XXXX-YY-ZZ

NET WEIGHT

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, absorbed through skin, or inhaled.

- [•] Open in a well-ventilated area. Avoid breathing dust and fumes.
- [•] Do not get in eyes, on skin, or on clothing. Do not handle with bare hands. Wear protective eyewear and use rubber gloves. For additional protection of skin, wear long sleeves and long pants.
- [•] Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- [•] Remove and wash contaminated clothing before reuse.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

IN CASE OF EMERGENCY CALL: 1-800-654-6911

PHYSICAL AND CHEMICAL HAZARDS:

DANGER. If product is exposed to small amounts of water, it can react violently to produce heat and toxic gas and spatter. Do not pre-mix or add water to this product. Only add this product directly to your swimming pool [,][or] spa][or skimmer].

- [•] Do not allow to become wet or damp before use.

Can react with other materials, including other water treatment products, to cause fire, explosion, and the release of toxic gases.

- [•] Keep all foreign matter, including other water treatment products, away from this product.

- [•] *{For use with resealable packaging.}* Use only clean, dry utensils to dispense this product.

- [•] *{For residential use:}*[Do not use this product in a floater or feeder.] *{For industrial, commercial or municipal use:}* [Do not use this product in a floater or feeder that has been used with any other product.]

- [•] Do not allow this product to contact other water treatment products. Before placing this product in a skimmer, make sure skimmer is completely clean and free of residue from other water treatment products.

Exposure to heat can cause this product to rapidly decompose, leading to fire, explosion, and the release of toxic gases.

- [•] Store in a cool, dry, well-ventilated area.

Strong oxidizing agent. This product can increase fire intensity.

- [•] Keep away from heat and from flame and burning material, including lighted cigarettes.

{First sentence of paragraph below for containers less than 50 lbs. All others use full paragraph.}

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE & DISPOSAL:

{Nonrefillable container - household/residential use}

[Keep this product dry in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Nonrefillable container. Do not reuse or refill this container. Rinse empty container thoroughly with water to dissolve all material prior to disposal. Offer for recycling if available. Do not contaminate food or feed by storage or disposal or cleaning of equipment. FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING.]

{Nonrefillable container – single-use, non-resealable package}

[Keep this product dry in its tightly closed container. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Nonrefillable container. Do not reuse or refill this container. Rinse empty container thoroughly with water to dissolve all material prior to disposal. Offer for recycling if available. Do not contaminate food or feed by storage or disposal or cleaning of equipment. FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING.]

{Refillable container – household/residential use}

[Keep this product dry in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Do not contaminate food or feed by storage or disposal or cleaning of equipment. FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING. Refillable container. Refill this container with calcium hypochlorite only. Do not use this container for any other purpose. Rinse empty container thoroughly with water to dissolve all material prior to disposal.]

{Nonrefillable container - non-household/residential use}

[Keep this product dry in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Do not contaminate food or feed by storage or disposal or cleaning of equipment. FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING. Nonrefillable container. Do not reuse this container. Offer for recycling if available. Rinse empty container thoroughly with water to dissolve all material prior to disposal.]

{Refillable container – non-household/residential use}

[Keep this product dry in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Do not contaminate food or feed by storage or disposal or cleaning of equipment. FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING. Refillable container. Refill this container with calcium hypochlorite only. Do not use this container for any other purpose. Cleaning of this container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Rinse empty container thoroughly with water to dissolve all material prior to disposal.]

EMERGENCY HANDLING: In case of contamination or decomposition - Do not reseal container. Immediately remove container to an open and well-ventilated outdoor area by itself. Flood with large amounts of water until the material is dissolved. Dispose of container and any remaining material in an approved landfill area.

{Optional marketing claims}

{Treatment}

[1 bag [pouch] [pod] [pack] [delivers] [treats] [5 ppm of chlorine] [in][11,500 gallons]

[1 lb. [delivers] [treats] [5 ppm of chlorine] [in] [11,500 gallons]]

[For heavy bather loads or after heavy rains]

[1 [bag] [pouch] [pod] [pack] [treats] [X gallons]

[Single use bag sizes may vary from 1 oz to 32 oz. The number of gallons treated (X) is calculated using the following formula:

$X \text{ gallons treated} = \text{bag size in ounces} \times 11,500/16$

So a 16 oz. bag would treat $16 \times 11,500/16 = 11,500$ gallons

And an 8 oz bag would treat $8 \times 11,500/16 = 5,750$ gallons]

{Pool Type}

[[Best used with] [Ideal for] [For] pop-up pools]

[[For use][Ideal] [with] [for] all pool [surfaces][types]]

[Ideal for [vinyl-lined pools] {or} [pools with vinyl liners] when used as directed]

[[For use] [Ideal] [with] [for] all pool types [including vinyl-liner pools]]

[Ideal for [in ground] [and][&] [above ground] [pools] [with a skimmer]]

[Good for all pool surfaces]

[Special pop-up pool size]

{Spa Type}

[Ideal for spa use]

{Sanitizer}

[Provides effective chlorination [at an economical price]]

[Provides [chlorination][sanitization]]

[45% available chlorine]

[47.6% active ingredient]

[Concentrated granular [chlorinator][sanitizer]]

[[Routine] Sanitizer [for chlorine pools][for chlorine spas]]

[Sanitizes for [brilliantly] clear water]

[Sanitizes [pool] [spa] water]

[Swimming pool sanitizer]

[Sanitizer]

[Chlorinating granules for [multiple] [pool] [[and][&]] [spa] [use[s]]]

[Convenient Routine Chlorinator]

[Concentrated chlorinating agent]

{Bacteria Control}

[Bacteria [destroying][killing]]

[Begins working [fast] to destroy bacteria]

[Destroys bacteria]

[Destroys organic contaminants]

[[Eliminates] [Kills] bacteria]

{Shock}

[Effective shock [and][&] oxidizer]]

[Multi-functional shock treatment]

[Shock]
[Oxidizer]
[Special shock formula]
[For pool startup and weekly shock treatment]
[Dry, free-flowing form]
[Shock Treatment [[and][&]] [Superchlorinator] for [Swimming Pools] [and][&] [Spa[s]]

{Algae}

[Algae [destroying][killing][fighting]]
[Algaecide]
[[Controls][Destroys] [Kills] [Inhibits] [Prevents] algae]
[[With][Contains] built-in algae [protection][fighter]]

{Bacteria & Algae}

[Bacteria [and][&] algae control]
[[Controls] [Destroys] [Kills] [Inhibits] [Prevents] [Bacteria] [and][&] Algae]
[Kills bacteria, destroys organic contaminants [and][&] controls algae]
[Routine use protects water from bacteria [[and][&] algae]]
[Protects against bacteria [and][&] algae]

{Clarifier}

[Clears cloudy water]
[Creates [Produces] sparkling, crystal clear water]
[Crystal clear results in 24 hours]
[Keeps [pool] [spa] water clean [and][&] crystal clear]
[Maintains brilliantly clear water]
[Restore[s] crystal clarity to water]
[Delivers sparkling [pool] [spa] water]
[Clarifies]

{Multi-Benefit}

[[All-in-one] [Shocks] [clarifies] [chlorinates] [sanitizes] [kills algae] [and][&]] [oxidizes]]
[[Multipurpose] [All-in-One] sanitizer and shock treatment]
[6-in-1 [Action] [Shock Treatment]] [Sanitizer]
[5-in-1 [Action] [Shock Treatment]] [Sanitizer]
[4-in-1 [Action] [Shock Treatment]] [Sanitizer]
[3-in-1 [Action] [Shock Treatment]] [Sanitizer]
[2-in-1 [Action] [Shock Treatment]] [Sanitizer]
[2-in-1 Action: Sanitizes and prevents algae]
[Dual action: Sanitizes and prevents algae]
[Chlorinating granules for multipurpose uses]
[Controls algae, kills bacteria and destroys organic contaminants [in [pools] [spas & hot tubs]]]

{Pack Description}

[[Brand name] [[X] x 1 lb.] [Bonus Pack]] {where "X" represents a number}
[[X] Bags of [brand name]] {where "X" represents a number}
[[X] convenient, pre-measured 1lb. bags] {where "X" represents a number}
[[Bonus Pack] [X] Bags of [brand name][Shock]] {where "X" represents a number}
[[Special] [Value] [Bonus] [X] Pack] {where "X" represents a number}
[[Summer][X] [Pack][bonus pack]] {where "X" represents a number}

{Test Strips}

[[X] FREE [brand] [product name] [test strips] included] {where "X" represents a number}
[[Bonus Pack with] [X] [FREE] [brand] [product name] [test strips] [inside]] {where "X" represents a number}
[[Bonus] [X count] [brand] [product name] [test strips] [inside]] {where "X" represents a number}
[[FREE] [Trial pack] [brand] [product name] [test strips] [inside]]

{Fast Acting}

[[Fast] [acting] [dissolving]]

{Marketing Language}

[[Here to Help] [since 1928]]
[Pool [Care] Experts since 1928]
[Special formula]
[Bonus Pack]
[Value Pack]
[Concentrated Formula]
[Concentrated, Fast Acting Formula]

{Residue/ Solubility/Scale}

[No fading of liner[s] when used as directed]
[Non-staining formula]
[[Won't] [Will not] [fade] liner when used as directed]
[[Won't] [Will not] [cause staining] [or] [damage liners] when used as directed]

{Ease of Use}

[Easy to use]
[Easy, economical, convenient to use]
[Reduced maintenance formulation]
[Convenient]
[Economical]

{Stabilization}

[[No risk of] [Will not cause] over stabilization]

{Odor}

[Reduces chlorine odor]

{Eye Irritation}

[Reduces eye irritation caused by swimming pool water]

{pH Control}

[Will not lower pH]

{Compatibility with salt pools}

[Compatible with salt [water] [systems] [pools]]
[Salt [water] [system] [pool] compatible]

{Steps}

[For best results, follow the [brand] 3-Step Program:]
[For best results, follow the [brand] 4 step pool care program:]
[Step] [1] [Balance]
[Step] [2] [Sanitize]
[Step] [3] [Shock] [Weekly]
[Step] [4] [Prevent Algae]

{Graphic renderings of the 4 steps:}



[] {for routine chlorination directions}



[] {for shock treatment directions}

[[Brand] Step System:]
[Step] [1] [Balance]
[Step] [2] [Sanitize]
[Step] [3] [Shock] [Weekly]

[Enhance]
[Prevent]

[[Brand or poolife®] 3-Step System:
[Step] 1 [Sanitize It!]
[Step] 2 [Shock It!]
[Step] 3 [Defend It!]]

{Graphic renderings of the 3 steps:}



HOW TO CALCULATE POOL CAPACITY IN U.S. GALLONS	
POOL SHAPE	FORMULA (Dimensions in feet)
Rectangular:	$L \times W \times AD \times 7.5 = \text{total gallons}$
Round:	$Di \times Di \times AD \times 5.9 = \text{total gallons}$
Oval:	Maximum L x maximum W x AD x 5.9 = total gallons
Freeform:	Surface area (sq. feet) x AD x 7.5 = total gallons

L = Length, W = Width, AD = Average Depth, Di = Diameter]

{or}

[To calculate your pool's capacity, visit hthpools.com/XXXX.]



[Made in the USA]
[Made in the USA of US and imported content.]



[For product questions/support [from [brand] pool [and spa] care experts:]
[Call: [brand number] [866-HTH-Pool]]
[Chat online: [brand website] [hthpools.com]]
[We're available 7 days a week from 8 AM to 10 PM EST]

[Visit: [brand website] [hthpools.com]]

A black rounded rectangular call card. At the top, the word "HELPLINE" is written in large, white, bold, sans-serif font. Below it, the phone number "866-HTH-POOL" is written in white, bold, sans-serif font, with "(4 8 4 - 7 6 6 5)" underneath. The text "Call 7 days a week with your pool care questions." is in a smaller white font. Below that, "8:00 AM - 10:00 PM EST" is written in white, bold, sans-serif font. At the bottom, "Visit us online:" is written in white, bold, sans-serif font, with "www.hthpools.com" underneath. The card is enclosed in square brackets.

A black rounded rectangular call card, identical to the one above. It contains the text: "HELPLINE", "866-HTH-POOL (4 8 4 - 7 6 6 5)", "Call 7 days a week with your pool care questions.", "8:00 AM - 10:00 PM EST", and "Visit us online: www.hthpools.com". The card is enclosed in square brackets.



[Get social with us at:] [Connect and Swim with us on Social [Media]:]

www.youtube.com/brand

www.facebook.com/brand

www.instagram.com/brand

www.pinterest.com/brand

www.google.com/+brand

{OR}

[use social icons]

[[Brand name] and the [brand] logo are trademarks of Lonza or its affiliates.]

[[HTH®][brand] and the [HTH®][brand] logo are registered trademarks of Arch Chemicals, Inc.]

*{If the following Spanish statement is used, it must appear directly above DIRECTIONS FOR USE.}
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)*

DIRECTIONS FOR USE:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ALL PRECAUTIONARY STATEMENTS BEFORE USE.

[This product is a concentrated chlorinating agent.] [It is in a dry, free-flowing form.] [It kills bacteria, controls algae and destroys organic contaminants in pools [, spas and hot tubs].]

{Use 1}[[SWIMMING POOLS]

{Mass Channel}

{Sanitizer}

[WHY YOU SHOULD USE THIS PRODUCT:

This is an effective, [multi-purpose][2-in-1][sanitizer] product that works Fast to kill bacteria and algae.] [It is convenient, easy to use, and won't over-stabilize your pool.]

{Shock}

[WHY YOU SHOULD USE THIS PRODUCT:

This is an effective [, 2-in-1] [shock] product that [kills bacteria and algae]. [It is convenient, easy to use, and won't over-stabilize your pool.]

{Optional statement for pool care program for the [Brand A]}

[For crystal clear pool water, follow our [Brand A] 4 step pool care program: Step 1: Test and adjust pool water balance, Step 2: Sanitize, Step 3: Shock treat your pool at least once a week, and Step 4: Add algaecide regularly.]

{Optional statement for pool care program with the [Brand B]}

[For crystal clear pool water, follow our [Brand B] 3-Step Program: Step 1: Test and balance pool water, Step 2: Sanitize, and Step 3: Shock at least once a week.]

{Optional statement for pool care program for the [Brand C]}

[Take a pool water sample to your [authorized] [Brand C] retailer for a detailed water analysis.]

[Consult your local hardware dealer for advice on the system that best suits your pool and lifestyle.]

[Take a pool water sample to your local hardware dealer for a detailed water analysis.]

{Dealer Channel}

[[WHY YOU SHOULD USE THIS PRODUCT:] This is an effective, [multi-purpose] [shock] [sanitizer] product that [works fast] [destroys bacteria and algae] [and] restores crystal clarity to pool water][sanitizes], [clarifies], [helps] prevent[s] [kills] algae and [shock treats your pool]. [It is convenient, easy to use, and won't over-stabilize your pool.] [It will not over-stabilize your pool water.]

[For best results, follow a weekly program with our [brand] System. Consult your authorized [brand] dealer for advice on the system that best suits your pool and your lifestyle.] [Take a pool water sample to your authorized [brand] dealer regularly for a detailed water analysis.] **[For crystal clear pool water, follow the [brand] 3 step pool care program: Step 1: Sanitize [It], Step 2: Shock [It] Step 3: Defend [It].]**

[WATER BALANCE:]

[Adjust and maintain total alkalinity from 60 to 100 parts per million (ppm), pH from 7.2 to 7.6, and calcium hardness above 200 ppm. [Always check and adjust total alkalinity before adjusting pH levels.] Test frequently using [a brand] [test kit] {or} [test strips] that measure[s] all of the above ranges. Follow label directions for each product and allow each product to dissolve and disperse before adding additional products to the pool.]

{Mass Channel}

[[Download the [FREE] [Test to Swim™] [application name] app from your smartphone] [for expert water analysis, product recommendations, and dosage instructions].]

[Visit a [Test to Swim™ Station] [device/station name], at participating retailers, for expert water analysis, product recommendations and dosage instructions. [To find a participating retailer near you, visit www.hthpools.com/XXX].]

[Use a [Test to Swim™ Station] [device/station name] (at participating retailers) or download the Test to Swim™ [application name] app from your smartphone] [for expert water analysis, product recommendations, and dosage instructions].]

{Dealer Channel}

[Take a pool water sample to your [brand] dealer frequently to test for water balance.] Maintain free available chlorine between 1 - 4 ppm.]

{or}

[Adjust and maintain pool water to recommended ranges:

Acceptable Range for Balance	
Total Alkalinity	60-100 ppm
pH	7.2-7.6
Calcium Hardness	Above 200 ppm
Available Chlorine	1-4 ppm

NOTE: Follow label directions for each product and allow each product to dissolve and disperse before adding additional products to the pool. Always check and adjust total alkalinity before adjusting pH levels. [Use a test kit [or test strips] that measure[s] all these ranges.]]

[METHOD OF APPLICATION:][HOW TO USE:]

{When contents are in a resealable container} [Use only a clean, dry [scoop] [lid] to measure this product]. [Do not use the [scoop] [lid] for any other purpose.]

{When contents are in a single use bag} [Use entire contents of bag when opened.]

DO NOT use in floater or feeder.

[[METHOD FOR DOSING DIRECTLY INTO POOL:]]

Add the recommended dosage of this product [during evening hours] while the filter pump is running. When adding this product to your pool, broadcast the product evenly over a wide area in the deepest part of the pool. If any granules settle to the bottom of the pool, use brush to disperse until completely dissolved. [Undissolved granules may cause bleaching or other damage to pool surfaces.]

[[METHOD FOR SKIMMER ADDITION:]]

[Use this method to avoid bleaching vinyl liner or paint.] Make sure that filter pump is on and properly recirculating through skimmer. Empty skimmer of all chemicals and/or debris. Contamination may cause an explosion or the release of toxic gases. DO NOT use this method when an automatic chemical dispensing device (e.g. feeder) is present. Pour this product slowly into skimmer, making sure that the material is drawn into the system at the same rate, DO NOT allow this material to accumulate as toxic gases may be generated.]

Test free available chlorine residual with [a][brand] pool [test [kit] [or] [test strips]]. Do not enter pool until the free available chlorine residual is 1- 4 ppm. **Re-entry into treated swimming pools is prohibited above levels of 4 ppm chlorine for risk of bodily injury.**

[OPENING YOUR POOL:

Balance pool water per levels in WATER BALANCE section. Add a shock dosage of this product. Repeat dosage, as needed, until the free available chlorine residual is 1–4 ppm. Follow label directions for each of these products.]

{Sanitizer Directions}

ROUTINE CHLORINATION:

[For [Wading Pools], [Splasher Pools] [and] [Kiddie Pools]:]

[Throughout the pool season, add 0.16 oz [(1 teaspoon (tsp))] [(#¹ bag[s]²)] of this product per 200 gallons of pool water daily or as often as needed to maintain chlorine residual at 1-4 ppm.]

[For small pools less than 5,000 gallons:] [For pop-up pools:]

[FOR UNSTABILIZED POOLS: [Add 0.4 oz [(2 1/2 teaspoons (tsp))] [(# bag[s])] of this product per 500 gallons of pool water daily or as often as needed to maintain the free available chlorine residual at 1 – 4 ppm. FOR STABILIZED POOLS: Add 0.2 oz [(1 1/4 tsp)] [(# bag[s])] per 500 gallons every other day or as often as needed to maintain the free available chlorine residual at 1-4 ppm.]

[For pools up to 10,000 gallons:] [For pop-up, above ground and/or inground pools:]

[FOR UNSTABILIZED POOLS: [Add 0.8 oz [(1 1/2 tablespoons (Tbsp))] [(# bag[s])] per 1,000 gallons of pool water daily or as often as needed to maintain the free available chlorine residual at 1 – 4 ppm. FOR STABILIZED POOLS: Add 0.4 oz [(2 1/2 teaspoons (tsp))] [(# bag[s])] per 1,000 gallons every other day or as often as needed to maintain the free available chlorine residual at 1-4 ppm.]

[For pools 10,000 gallons and larger:]

¹ Single use bag sizes may vary from 1 oz to 32 oz. The value for # will be calculated using the following formula:

= dosage (oz) / bag size (oz)

For instance, if a 1 oz bag is used, the 2 oz dosage will say “2 oz (2 bags)”. No partial bag dosages (e.g. 1 ½ bags) will be listed.}

² The word “bag[s]” may be substituted with other single use packing such as “pouch[es]”, “pod[s]”, or “pack[s]”.

[FOR UNSTABILIZED POOLS: Add 8 oz [(# bag[s])] of this product per 10,000 gallons of pool water daily or as often as needed to maintain the free available chlorine residual at 1 – 4 ppm.
 FOR STABILIZED POOLS: Add 4 oz [(# bag[s])] per 10,000 gallons every other day or as often as needed to maintain the free available chlorine residual at 1-4 ppm.]

{{Chart may be used in whole or part based upon gallons for treatment. Single use bag sizes may vary from 1 oz to 32 oz. In the table below, the value for # will be calculated using the following formula:

= dosage (oz) / bag size (oz)

For instance, if a 1 oz bag is used, the 2 oz dosage will say “2 oz (2 bags)”. No partial bag dosages (e.g. 1 ½ bags) will be listed.}

[Use the following dosage recommendations based upon pool size.

Pool size, gallons	Dosage for unstabilized pools	Dosage for stabilized pools
500	0.4 oz [(2 ½ tsp)] [(# bag[s])]	0.2 oz [(1 ¼ tsp)] [(# bag[s])]
1,000	0.8 oz [(1 ½ Tbsp)] [(# bag[s])]	0.4 oz [(2 ½ tsp)] [(# bag[s])]
2,500	2 oz [(4 Tbsp)] [(# bag[s])]	1 oz [(2 Tbsp)] [(# bag[s])]
5,000	4 oz [(# bag[s])]	2 oz [(# bag[s])]
7,500	6 oz [(# bag[s])]	3 oz [(# bag[s])]
10,000	8 oz [(# bag[s])]	4 oz [(# bag[s])]
15,000	12 oz [(# bag[s])]	6 oz [(# bag[s])]
20,000	16 oz [(# bag[s])]	8 oz [(# bag[s])]
30,000	24 oz [(# bag[s])]	12 oz [(# bag[s])]

]

{Shock Directions}

SHOCK TREATMENT / SUPER CHLORINATION:

[As a preventative treatment, shock treat your pool once per week [with [brand] shock treatment]. Additional shock treatments may be necessary to remedy problems which may occur when bathing loads are high, water appears hazy or dull, unpleasant odors or eye irritation occur, after heavy wind and rainstorms, or if algae does develop with resulting green color and slimy feeling.]

[For [Wading Pools], [Splasher Pools] [and] [Kiddie Pools]:]

[Every 7 days, or as necessary to prevent pool problems, shock treat / superchlorinate the pool by adding 0.28 oz [(1/2 tablespoon (Tbsp))] [(#³ bag[s]⁴)] of this product per 200 gallons of water.]

[For small pools less than 5,000 gallons:] [For pop-up pools:]

[Every 7 days, or as necessary to prevent pool problems, shock treat / superchlorinate the pool by adding 0.7 oz [(1 1/2 tablespoons (Tbsp))] [(# bag[s])] of this product per 500 gallons of water.]

[For pools up to 10,000 gallons:] [For pop-up, above ground and/or inground pools:]

[Every 7 days, or as necessary to prevent pool problems, shock treat / superchlorinate the pool by adding 1.4 oz [(3 tablespoons (Tbsp))] [(# bag[s])] of this product per 1,000 gallons of water.]

[For pools 10,000 gallons and larger:] [For above ground and/or inground pools:]

[Every 7 days, or as necessary to prevent pool problems, shock treat / superchlorinate the pool by adding 1 pound [(# bag[s])] of this product per 11,500 gallons of water.]

[Additional shock treatments may be required to correct problems such as unpleasant odors, eye irritation due to pool water and visible algae, as well as problems caused by high bathing loads, heavy wind and rainstorms.]

{Chart may be used in whole or part based upon gallons for treatment. Single use bag sizes may vary from 1 oz to 32 oz. In the table below, the value for # will be calculated using the following formula:

= dosage (oz) / bag size (oz)

For instance, if a 1 oz bag is used, the 2 oz dosage will say “2 oz (2 bags)”. No partial bag dosages (e.g. 1 ½ bags) will be listed.}

[Use the following dosage recommendations based upon pool size.

Pool size, gallons	Dosage[, ounces]
500	0.7 oz [(# bag[s])]
1,000	1.4 oz [(# bag[s])]
2,000	2.8 oz [(# bag[s])]
2,500	3.5 oz [(# bag[s])]
3,000	4.2 oz [(# bag[s])]
4,000	5.6 oz [(# bag[s])]
5,000	7 oz [(# bag[s])]
6,000	8.4 oz [(# bag[s])]

³ *Single use bag sizes may vary from 1 oz to 32 oz. The value for # will be calculated using the following formula:*

= dosage (oz) / bag size (oz)

For instance, if a 1 oz bag is used, the 2 oz dosage will say “2 oz (2 bags)”. No partial bag dosages (e.g. 1 ½ bags) will be listed.}

⁴ *The word “bag[s]” may be substituted with other single use packing such as “pouch[es]”, “pod[s]”, or “pack[s]”.*

7,000	9.8 oz [(# bag[s])]
7,500	10.5 oz [(# bag[s])]
8,000	11.2 oz [(# bag[s])]
9,000	12.6 oz [(# bag[s])]
10,000	14 oz [(# bag[s])]
12,500	17.5 oz [(# bag[s])]
15,000	21 oz [(# bag[s])]
17,500	24.5 oz [(# bag[s])]
20,000	28 oz [(# bag[s])]
30,000	42 oz [(# bag[s])]

]

[ALGAE CONTROL:

Add a shock dosage of this product as close as possible to any algae on the sides or bottom of the pool. If necessary, repeat the treatment. To optimize treatment and prevent possible staining or bleaching, immediately after treatment, thoroughly clean pool by brushing surface of algae growth and disperse any granules on the bottom of the pool.]

[For preventative algae control: Add a shock dosage weekly. [However, if problems persist use your preferred [brand] algaecide product regularly. Follow label directions on [the algaecide] {or} [that product.]]

[WINTERIZING:

Gradually add 2 lbs. [(# bag[s])] of this product per 11,500 gallons of pool water that is clear and clean. Run the filter pump until granules are completely dissolved. Cover the pool with a [plastic] pool cover. Prepare the heater, pump and filter components for winterizing by following manufacturer’s directions.]

{optional instructions for pool kit}

[For Pool Opening:

Prepare the pool:

1. Remove cover and raise the water level as needed per the pool manufacturer’s directions.
2. Reconnect hoses, circulation and electrical equipment, then start pump.

Prepare the water:

1. Circulate water for at least 8 hours, then test using the [test kit or test strip name].
2. Balance Total Alkalinity, pH, and Calcium Hardness using the appropriate [brand] products.
3. Add the [algaecide product name] through the skimmer. Follow the directions on the product label for opening dose amounts based on pool volume.
4. Next, broadcast the [metal control product name] over the deepest part of the pool. Maintain circulation for 24 – 48 hours.
5. Broadcast the [shock product name] over the deepest part of the pool according to “Opening Your Pool” instructions on product label.
6. Add your preferred [brand] sanitizer as needed and maintain free available chlorine level between 1 – 4 ppm. Follow normal maintenance routine.

For Pool Closing:

1. Balance the water and clean the filter using [brand] products.
2. With the pump and filter operating, broadcast the [shock product name] over the deepest part of the pool according to pool “Shock Treatment” instructions on product label.
3. Next, add the proper closing dose of [algaecide product name] through the skimmer.
4. Broadcast the [metal control product name] over the deepest part of the pool. Maintain circulation for 24 – 48 hours.
5. Follow equipment manufacturer’s directions to winterize the pump, filter, and other pool equipment.

[Follow label directions for each of these products. [See side panel.]]

{Use 2} [SPA & HOT TUBS]**{Mass Channel}****{Sanitizer}**

[WHY YOU SHOULD USE THIS PRODUCT: This is an effective, [2-in-1][multi-purpose] [sanitizer] product that works fast to [kill bacteria and algae]. [It is convenient, easy to use, and won’t over-stabilize your spa.]]

{Shock}

[WHY YOU SHOULD USE THIS PRODUCT: This is an effective, [2-in-1] [shock] product that [kills bacteria and algae]. [It is convenient, easy to use, and won’t over-stabilize your spa.]]

[For crystal clear spa water, follow our [Brand] 3-Step Program: Step 1: Balance, Step 2: Sanitize, and Step 3: Shock.]

{Dealer Channel}

[[WHY YOU SHOULD USE THIS PRODUCT:] This is [a convenient, easy to use] [2-in-1][multi-purpose] [sanitizer] product that [effectively] [works fast to] [kill[s] bacteria and algae].]

HOW TO USE: [Do not pre-mix this product before adding it to your spa. Only add this product directly to your spa.] [Use only a clean, dry [scoop] [lid] to measure this product. Do not use the [scoop] [lid] for any other purpose.]

Add the recommended dosage of this product while the filter pump is running. Scatter the product over the surface of the water. If any granules settle to the bottom of the spa use brush to disperse.

Test free available chlorine residual with a spa test kit. Do not enter spa until the free available chlorine residual is 3-5 ppm. **Re-entry Into treated spas is prohibited above levels of 5 ppm for risk of bodily injury.**

[WATER BALANCE:

[For best product performance, comfort, and [crystal] [clear] [clean] water: Maintain total alkalinity in the range of 60 to 100 parts per million (ppm). Maintain pH in the range of 7.2 to 7.8. Maintain calcium hardness above 200 ppm. Always check and adjust total alkalinity before adjusting pH levels.] [Use a

test kit that measures all these ranges.] Use [brand] Spa Care Products to make adjustments. Follow label directions for each product and allow each product to dissolve and disperse before adding additional products to the spa.]

{Mass Channel}

[[Download the [FREE] [Test to Swim™] [application name] app from your smartphone] [for expert water analysis, product recommendations, and dosage instructions].]

[Visit a [Test to Swim™ Station] [device/station name], at participating retailers, for expert water analysis, product recommendations and dosage instructions. [To find a participating retailer near you, visit www.hthpools.com/XXX].]

[Use a [Test to Swim™ Station] [device/station name] (at participating retailers) or download the Test to Swim™ [application name] app from your smartphone] [for expert water analysis, product recommendations, and dosage instructions].]

{Dealer Channel}

[Take a spa water sample to your [brand] dealer frequently to test for water balance.] Maintain free available chlorine between 3 - 5 ppm.]]

{or}

[WATER BALANCE: For best product performance, comfort and crystal clear water, use [brand] spa care products to maintain the following water balance:

Acceptable Range for Balance	
Total Alkalinity	60 - 100 ppm
pH	7.2 - 7.8
Calcium Hardness	Above 200 ppm
Available Chlorine	3 - 5 ppm

Note: Follow label directions for each product and allow each product to dissolve and disperse before adding additional products to the spa. Always check and adjust total alkalinity before adjusting pH levels. [Use a test kit [or test strips] that measure[s] all these ranges.]

[OPENING YOUR SPA [OR HOT TUB][Freshly Filled]] Add one (1) ounce [(2 tablespoons (Tbsp))] [(#⁵ bag[s]⁶)] of this product for each 500 gallons of water. Repeat dosage as needed until the free available chlorine residual is 3-5 pm.]

[[ROUTINE CHLORINATION FOR] REGULAR USE: Add 0.7 oz [(4 tsp)] [(# bag[s])] of this product per 500 gallons of water daily or as often as needed to maintain the free available chlorine residual at 3-5 ppm.] .

⁵ Single use bag sizes may vary from 1 oz to 32 oz. The value for # will be calculated using the following formula: # = dosage (oz) / bag size (oz)

For instance, if a 1 oz bag is used, the 2 oz dosage will say “2 oz (2 bags)”. No partial bag dosages (e.g. 1 ½ bags) will be listed.}

⁶ The word “bag[s]” may be substituted with other single use packing such as “pouch[es]”, “pod[s]”, or “pack[s]”.

[[SHOCK TREATMENT] [/] [SUPER CHLORINATION]: After each use, shock treat with 1.4 oz [(3 Tbsp.)] [(# bag[s])] of this product per 500 gallons of water, to control odors and algae. Repeat as needed. [Water soluble, non-filterable wastes can accumulate in spa or hot tub water and cause dull or cloudy water and can stimulate algal growth.] [Superchlorination] [Shock treatment] must be done on a regular basis to remove these wastes and maintain clear sparkling water.]]

[FOR PREVENTATIVE ALGAE CONTROL: Add a shock dosage weekly. However, if problems persist use your preferred [brand] [spa] algacide product regularly. Follow label directions on that product.]

[EXTENDED NON-USE PERIOD: During extended non-use periods when the spa or hot tub is not being used add 2 oz [(4 Tbsp)] [(# bag[s])] of this product per 500 gallons twice a week with the circulation system running or as needed to maintain 3-5 ppm free available chlorine.]

[It is recommended that spas and hot tubs be drained every 30-90 days, more often under heavy use. Consult manufacturer's recommendations concerning the compatibility of chlorine sanitizers with their equipment. Some oils, lotions, fragrances, cleansers, or other contaminants may cause foaming or cloudy water and may react with chlorine sanitizers to reduce their efficacy.]

{Use 3} [HUBBARD AND IMMERSION TANKS - Add 1.4 oz. of this product per 200 gallons of water before patient use to obtain a chlorine residual of 25 ppm, as determined by a suitable test kit. Adjust and maintain the water pH to between 7.2 and 7.6. After each use drain the tank. Add 0.5 oz. to a bucket of water and circulate this solution through the agitator of the tank for 15 minutes and then rinse out the solution. Clean tank thoroughly and dry with clean cloths.]

[HYDROTHERAPY TANKS – Add 1.4 oz. of this product per 1,000 gallons of water to obtain a minimum chlorine residual of 1 ppm, as determined by a suitable chlorine test kit, after satisfying any chlorine demand. Do not enter pool until the chlorine residual is below 3 ppm. Adjust and maintain the water pH to between 7.2 and 7.6. Operate pool filter pump continuously. Drain pool weekly, and clean before refilling.]

{Use 4} [SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES:

[RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 1.5 oz. of this product with 20 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.]

[IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in a immersion tank, 1.5 oz. of this product with 20 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.]

[[COARSE] SPRAY METHOD - Preclean all surfaces after use. Prepare a 200 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 1.5 oz. product with 20 gallons of water. Use spray equipment which can resist hypochlorite solutions. Prior to using equipment, thoroughly spray all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.]]

{Use 5} [DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES:

[RINSE METHOD - Prepare a disinfecting solution by thoroughly mixing 4.4 oz. of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the disinfecting solution, maintaining contact with the solution for at least 10 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.]

[IMMERSION METHOD - Prepare a disinfecting solution by thoroughly mixing, in an immersion tank, 4.4oz. of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the disinfecting solution for at least 10 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.]]

{Use 6} [SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES:

[RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 4.4 oz. of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.]

[IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 4.4 oz. of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.]

[[COARSE] SPRAY METHOD - After cleaning, sanitize non-food contact surfaces with 600 ppm available chlorine by thoroughly mixing the product in a ratio of 4.4 oz. of this product with 20 gallons of water. Use spray equipment which can resist hypochlorite solutions. Always empty and rinse spray equipment with potable water after use. Prior to using equipment, thoroughly spray all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.]]

{Use 7} [SEWAGE & WASTEWATER EFFLUENT TREATMENT - The disinfection of sewage effluent must be evaluated by determining the total number of coliform bacteria and/or fecal coliform bacteria (as determined by the Most Probable Number (MPN) procedure) of the chlorinated effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction. On the average, satisfactory disinfection of secondary wastewater effluent can be obtained when the chlorine residual is 0.5 ppm after 15 minutes contact. Although the chlorine residual is the critical factor in disinfection, the importance of correlating chlorine residual with bacterial kill must be emphasized. The MPN of the effluent, which is directly related to the water quality standards requirements, should be the final and primary standard and the chlorine residual should be considered an operating standard valid only to the extent verified by the coliform quality of the effluent. The following are critical factors affecting wastewater disinfection: 1. Mixing: It is imperative that the product and the waste water be instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the waste water. 2. Contacting: Upon flash mixing, the flow through the system must be maintained. 3. Dosage/Residual Control: Successful disinfection is extremely dependent on response to fluctuating chlorine demand to maintain a predetermined, desirable chlorine level. Secondary effluent should contain 0.2 to 1.0 ppm chlorine residual after a 15 to 30 minute contact time. A reasonable average of residual chlorine is 0.5 ppm after 15 minutes contact time.]

{Use 8} [SEWAGE AND WASTEWATER TREATMENT:

[EFFLUENT SLIME CONTROL - Apply a 100 to 1,000 ppm available chlorine solution at a location which will allow complete mixing. Prepare this solution by mixing 3 to 29 oz. of this product with 100 gallons of water. Once control is evident, apply a 15 ppm available chlorine solution. Prepare this solution by mixing 0.5 oz. of this product with 100 gallons of water.]

[FILTER BEDS: SLIME CONTROL - Remove filter from service, drain to a depth of 1 ft. above filter sand, and add 23 oz. of product per 20 sq. ft. evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for 4 to 6 hours before completely draining and backwashing filter.]]

{Use 9} [DISINFECTION OF DRINKING WATER (EMERGENCY/PUBLIC/INDIVIDUAL SYSTEMS:

[PUBLIC SYSTEMS - Mix a ratio of 1.5 oz. of this product to 6,000 gallons of water.] {or} [Mix a ratio of 10 oz. to 30 oz. of this product into 10 gallons of water to make a 0.5% to 1.5% solution. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Primary Drinking Water Regulations. Contact your local Health Department for further details.]

[INDIVIDUAL SYSTEMS: DUG WELLS - Upon completion of the casing (lining) wash the interior of the casing (lining) with a 100 ppm available chlorine solution using a stiff brush. This solution can be made by thoroughly mixing 1.5 oz. of this product into 40 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipe sleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Contact your local Health Department for further details.]

[INDIVIDUAL WATER SYSTEMS: DRILLED, DRIVEN & BORED WELLS - Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well, this solution can be made by thoroughly mixing 1.5 oz. of this product into 40 gallons of water. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Drop pipeline into well, start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Consult your local Health Department for further details.]

[INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS - Artesian wells generally do not require disinfection. If analyses indicate persistent contamination, the well should be disinfected. Consult your local Health Department for further details.]

[EMERGENCY DISINFECTION - When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified, contaminated water to a clean container and add 2 grains of this product to 1 gallon of water. One grain is approximately the size of the letter "o" in this sentence. Allow the treated water to stand for 30 minutes. Properly treated water should have a slight chlorine odor. If not, repeat dosage and allow the water to stand an additional 15

minutes. The treated water can then be made palatable by pouring it between clean containers for several times.]]

{Use 10} [PUBLIC WATER SYSTEMS:

[RESERVOIRS - ALGAE CONTROL- Hypochlorinate streams feeding the reservoir. Suitable feeding points should be selected on each stream at least 50 yards upstream from the points of entry into the reservoir.]

[MAINS - Thoroughly flush section to be sanitized by discharging from hydrants. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.]

[NEW TANKS, BASINS, ETC. - Remove all physical soil from surfaces. Place 3.6 oz. of this product for each 5 cubic feet of working capacity (500 ppm available chlorine). Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to surface.]

[NEW FILTER SAND - Apply 32 oz. of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in sanitizing the new sand.]

[NEW WELLS - Flush the casing with a 50 ppm available chlorine solution of water containing 2 oz. of this product for each 100 gallons of water. The solution should be pumped or fed by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under chlorination. It may then be pumped until a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.]

[EXISTING EQUIPMENT - Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by placing 6 oz. of this product for each 5 cubic feet capacity (approximately 500 ppm available chlorine). Fill to working capacity and let stand at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces may be sprayed with a solution containing 1.5 oz. of this product for each 5 gallons of water (approximately 1,000 ppm available chlorine). After drying, flush with water and return to service.]]

{Use 11} [EMERGENCY DISINFECTION AFTER FLOODS:

[WELLS - Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 1.5 oz. of this product with 10 gallons of water. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine residual. Agitate the well water for several hours and take a representative water sample. Treat well again if water samples are biologically unacceptable.]

[RESERVOIRS - In case of contamination by overflowing streams, establish hypochlorinating stations upstream of the reservoir. Chlorinate the inlet water until the entire reservoir obtains a 0.2 ppm available chlorine residual, as determined by a suitable chlorine test kit. In case of contamination from surface drainage, apply sufficient product directly to the reservoir to obtain a 0.2 ppm available chlorine residual in all parts of the reservoir.]

[BASINS, TANKS, FLUMES, ETC. - Thoroughly clean all equipment, then apply 6 oz. of product per 5 cu. ft. of water to obtain 500 ppm available chlorine, as determined by a suitable test kit. After 24 hours drain, flush, and return to service. If the previous method is not suitable, spray or flush the equipment with a solution containing 1 oz. of this product for each 5 gallons of water (1,000 ppm available chlorine). Allow to stand for 2 - 4 hours, flush and return to service.]

[FILTERS - when the sand filter needs replacement, apply 24 oz. of this product for each 150 to 200 cubic feet of sand. When the filter is severely contaminated, additional product should be distributed over the surface at the rate of 24 oz. per 20 sq. ft. Water should stand at a depth of 1 foot above the surface of the filter bed for 4 to 24 hours. When filter beds can be back washed of mud and silt, apply 24 oz. of this product per each 50 sq. ft., allowing the water to stand at a depth of 1 foot above the filter sand. After 30 minutes, drain water to the level of the filter. After 4 to 6 hours drain, and proceed with normal back washing.]

[DISTRIBUTION SYSTEM - Flush repaired or replaced section with water. Establish a hypochlorinating station and apply sufficient product until a consistent available chlorine residual of at least 10 ppm remains after a 24-hour retention time. Use a chlorine test kit.]]

{Use 12} [EMERGENCY DISINFECTION AFTER FIRES: CROSS CONNECTIONS OR EMERGENCY CONNECTIONS - Hypochlorination or gravity feed equipment should be set up near the intake of the untreated water supply. Apply sufficient product to give a chlorine residual of at least 0.1 to 0.2 ppm at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.]

{Use 13} [EMERGENCY DISINFECTION AFTER DROUGHTS: SUPPLEMENTARY WATER SUPPLIES - Gravity or mechanical hypochlorite feeders should be set up on a supplementary line to dose the water to a minimum chlorine residual of 0.2 ppm after a 20 minute contact time. Use a chlorine test kit.]

[WATER SHIPPED IN BY TANKS, TANK CARS, TRUCKS, ETC. -Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 minutes. This solution is made by mixing 1.5 oz. of this product for each 10 gallons of water. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.2 ppm chlorine residual. Use a chlorine test kit.]

{Use 14} [EMERGENCY DISINFECTION AFTER MAIN BREAKS: MAINS - Before assembly of the repaired section, flush out mud and soil. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.]

{Use 15} [COOLING TOWER/EVAPORATIVE CONDENSER WATER: SLUG FEED METHOD - Initial dose: When system is noticeably fouled, apply 15-30 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved. Subsequent dose: When microbial control is evident, add 2 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

[INTERMITTENT FEED METHOD - Initial Dose: When system is noticeably fouled, apply 15-30 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blow down. Subsequent Dose: When microbial control is evident, add 4 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blow down. Badly fouled systems must be cleaned before treatment is begun.]

[CONTINUOUS FEED METHOD - Initial dose: when system is noticeably fouled, apply 15-30 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Subsequent Dose: Maintain this treatment level by starting a continuous feed of 3 oz. of this product per 10,000 gallons of water lost by blow down to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.]]

{Use 16} [LAUNDRY SANITIZERS:

[HOUSEHOLD LAUNDRY SANITIZERS-] [IN SOAKING SUDS - Thoroughly mix 1.5 oz. of this product to 10 gallons of wash water to provide 200 ppm available chlorine. Wait 5 minutes, then add soap or detergent. Immerse laundry for at least 11 minutes prior to starting the wash/rinse cycle.] **[IN WASHING SUDS** - Thoroughly mix 1.5 oz. of this product to 20 gallons of wash water containing clothes to provide 200 ppm available chlorine. Wait 5 minutes, then add soap or detergent and start the wash/rinse cycle.]

[COMMERCIAL LAUNDRY SANITIZERS - Wet fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix 1.5 oz. of this product with 20 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution into the prewash prior to washing fabrics/clothes in the regular wash cycle with a good detergent. Test the level of available chlorine if solution has been allowed to stand. Add more of this product if the available chlorine level has dropped below 200 ppm.]

[FEDERALLY INSPECTED MEAT & POULTRY PLANT LAUNDRY SANITIZERS - Wet fabrics which contact meat or poultry products directly or indirectly should be spun dry prior to sanitization. Thoroughly mix 1.5 oz. of this product with 20 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution into the prewash prior to washing fabrics in the regular wash cycle with a good detergent. Test the level of available chlorine if solution has been allowed to stand. Add more of this product if the available chlorine level has dropped below 200 ppm. Thoroughly rinse fabrics with potable water at the end of the laundering operation.]]

{Use 17} [FARM PREMISES: Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities occupied or traversed by animals or poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. To disinfect, saturate all surfaces with a solution of at least 1,000 ppm available chlorine for a period of 10 minutes. A 1,000 ppm solution can be made by thoroughly mixing 3 oz. of this product with 10 gallons of water. Immerse all halters, ropes and other types of equipment used in handling and restraining animals or poultry, as well as the cleaned forks, shovels and scrapers used for removing litter and manure. Ventilate buildings, cars, boats and other closed spaces. Do not house livestock or poultry or employ equipment until chlorine has been dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.]

{Use 18} [PULP AND PAPER MILL PROCESS WATER SYSTEMS:

[SLUG FEED METHOD - Initial Dose: When system is noticeably fouled, apply 15-30 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 2.9 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.]

[INTERMITTENT FEED METHOD - Initial Dose: when system is noticeably fouled, apply 15-30 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blow down. Subsequent Dose: When microbial control is evident, add 2.9 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blow down. Badly fouled systems must be cleaned before treatment is begun.]

[CONTINUOUS FEED METHOD - Initial dose: When system is noticeably fouled, apply 15-30 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Subsequent Dose: Maintain this treatment level by starting a continuous feed of 2.9 oz. of this product per 10,000 gallons of water lost by blow down to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.]]

{Use 19} [AQUACULTURAL USES:

[FISH PONDS - Remove fish from containerized ponds prior to treatment. Thoroughly mix 30 oz. of this product to 10,000 gallons of water to obtain 10 ppm available chlorine. Add more product to the water if the available chlorine level is below 1 ppm after 5 minutes. Return fish to pond after the available chlorine level reaches zero.]

[FISH POND EQUIPMENT - Thoroughly clean all equipment prior to treatment. Thoroughly mix 1.5 oz. of this product to 20 gallons of water to obtain 200 ppm available chlorine. Porous equipment should soak for one hour.]

[MAINE LOBSTER PONDS - Remove lobsters, seaweed etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 1,900 oz. of this product to 10,000 gallons of water to obtain at least 600 ppm available chlorine. Apply so that all barrows, gates, rock and dam are treated with product. Permit high tide to fill the pond and then close gates. Allow water to stand for 2 to 3 days until the available chlorine level reaches zero. Open gates and allow 2 tidal cycles to flush the pond before returning lobsters to pond.]

[CONDITIONING LIVE OYSTERS - Thoroughly mix 1.5 oz of this product to 10,000 gallons of water at 50 to 70°F to obtain 0.5 ppm available chlorine. Expose oysters to this solution for at least 15 minutes, monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50°F.]

[CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS - Prepare a solution containing 200 ppm of available chlorine by mixing 1.5 oz. of product with 20 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a test kit.]]

{Use 20} [SANITIZATION OF DIALYSIS MACHINES: Flush equipment thoroughly with water prior to using this product. Thoroughly mix 10.2 oz. of this product to 60 gallons of water to obtain at least 600 ppm available chlorine. Immediately use this product in the hemodialysate system allowing for a

minimum contact time of 15 minutes at 20°C. Drain system of the sanitizing solution and thoroughly rinse with water. Discard and DO NOT reuse the spent sanitizer. Rinsate must be monitored with a suitable test kit to insure that no available chlorine remains in the system.

This product is recommended for decontaminating single and multipatient hemodialysate systems. This product has been shown to be an effective disinfectant (virucide, fungicide, bactericide, pseudomonicide) when tested by AOAC and EPA test methods. This product may not totally eliminate all vegetative microorganisms in hemodialysate delivery systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. This product should be used in a disinfectant program which includes bacteriological monitoring of the hemodialysate delivery system. This product is NOT recommended for use in hemodialysate or reverse osmosis (RO) membranes. Consult the guidelines for hemodialysate systems available from the Hepatitis Laboratories, CDC, Phoenix, AZ 85021.]

{Use 21} [TOILET BOWL SANITIZERS: These products are marketed as individual packages for placement in the toilet. Therefore, use directions are not appropriate.]

{Use 22} [ASPHALT OR WOOD ROOFS AND SIDINGS: To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water, and apply a 5,000 ppm available chlorine solution. Mix 1.5 oz. of this product per gallon of water and brush or spray roof or siding. After 30 minutes, rinse by hosing with clean water.]

{Use 23} [BOAT BOTTOMS: To control slime on boat bottoms, sling a plastic tarp under boat, retaining enough water to cover the fouled bottom area, but not allowing water to enter enclosed area. This envelope should contain approximately 500 gallons of water for a 14 foot boat. Add 5 oz. of this product to this water to obtain a 35 ppm available chlorine concentration. Leave immersed for 8 to 12 hours. Repeat if necessary. Do not discharge the solution until the free chlorine level has dropped to 0 ppm, as determined by a swimming pool test kit.]

{Use 24} [ARTIFICIAL SAND BEACHES: To sanitize the sand, spray a 500 ppm available chlorine solution containing 1.5 oz per 10 gallons of water at frequent intervals. Small areas can be sprinkled with a watering can.]